

Emerging Requirements For Thermostats

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3 Emerging Requirements

1. Demand Response with Programmable Communicating Thermostats (PCTs)
2. New building codes for mechanical ventilation
3. Energy Star specifications for programmable thermostats

Reflections

- These trends increase the “responsibilities” of thermostats
 - Links to more equipment than just the furnace/AC
 - More intelligence (and memory)
- The thermostat will become part of a *network*
 - Less of an appendage to heating/cooling
 - More like a new consumer electronics product

Other Emerging Requirements?

- Easy for old people to operate
- Simple terms for non-native users
- Requirements for disabled, ADA (height? Button separation?)
- Indoor air quality sensing
- Display/convert to SI units
- “virtual thermostat” in another device

Do we need more research on emerging req'ts?

We want from you

- More emerging requirements
- References to earlier research